

WHAT IS CLAIMED IS:

1. A piezoelectric resonator, including at least four external electrodes, which are joined to patterns on a substrate, and are disposed at an outer surface of a bottom of a package in which a piezoelectric resonator element is accommodated, comprising one pair of adjacent external electrodes among the external electrodes, being electrically connected to electrodes of the piezoelectric resonator element.

2. The piezoelectric resonator of claim 1, the pair of external electrodes electrically connected to the piezoelectric resonator element being disposed along a shorter latus of the package.

3. The piezoelectric resonator of claim 1, the pair of adjacent external electrodes being electrically connected to the electrodes of said piezoelectric resonator element, and that one of the other pair of external electrodes being made a ground terminal, while the other is made a dummy terminal which is not electrically connected.

4. The piezoelectric resonator of claim 1, at least one of the other pair of external electrodes formed into a different shape.

5. The piezoelectric resonator of claim 4, at least one of the other pair of external electrodes formed at only a position extending along an outer edge of the package.

6. The piezoelectric resonator of claim 5, an external electrode which is a dummy terminal not to be electrically connected being disposed in the vicinity of at least one of the other pair of external electrodes.

7. A piezoelectric oscillator, comprising:
 a substrate;
 a piezoelectric resonator in which at least four external electrodes are joined to patterns on the substrate and are disposed at an outer surface of a bottom of a first package that accommodates a piezoelectric resonator element therein, and in which one pair of adjacent external electrodes among the external electrodes are electrically connected to electrodes of the piezoelectric resonator element;
 a second package which is stacked under the first package and is joined thereto; and
 an oscillation circuit element which is accommodated in said second package, and which is electrically connected with the piezoelectric resonator element, at least one of the external electrodes being formed at only a position extending along an outer edge of the first package.

8. The piezoelectric resonator of claim 2, the pair of adjacent external electrodes being electrically connected to the electrodes of said piezoelectric resonator element, and that one of the other pair of external electrodes being made a ground terminal, while the other is made a dummy terminal which is not electrically connected.

9. The piezoelectric resonator of claim 8, at least one of the other pair of external electrodes formed into a different shape.

10. The piezoelectric resonator of claim 9, at least one of the other pair of external electrodes formed at only a position extending along an outer edge of the package.

11. The piezoelectric resonator of claim 10, an external electrode which is a dummy terminal not to be electrically connected being disposed in the vicinity of at least one of the other pair of external electrodes.

12. The piezoelectric resonator of claim 2, at least one of the other pair of external electrodes formed into a different shape.

13. The piezoelectric resonator of claim 12, at least one of the other pair of external electrodes formed at only a position extending along an outer edge of the package.

14. The piezoelectric resonator of claim 13, an external electrode which is a dummy terminal not to be electrically connected being disposed in the vicinity of at least one of the other pair of external electrodes.

15. The piezoelectric resonator of claim 3, at least one of the other pair of external electrodes formed into a different shape.

16. The piezoelectric resonator of claim 15, at least one of the other pair of external electrodes formed at only a position extending along an outer edge of the package.

17. The piezoelectric resonator of claim 16, an external electrode which is a dummy terminal not to be electrically connected being disposed in the vicinity of at least one of the other pair of external electrodes.